

Prerequisite status: Advanced geographic information system Database management Digital earth models	Unit Type: Theoretical/practical	The number of units: 2	Name of the lesson: <b>Analyzes of spatial multicriteria decision making</b>
Type of additional practical training: Has it <input checked="" type="checkbox"/> does not have <input type="checkbox"/> Science travel <input type="checkbox"/> Laboratory <input checked="" type="checkbox"/> Workshop <input type="checkbox"/> Seminar <input type="checkbox"/>		The number of hours: 51	Expert professor to teach: GIS
<b>Goals:</b> Familiarizing students with decision support systems and spatial multivariate analysis methods			
<b>Headlines</b> 1- An overview of definitions, concepts, applications, and types of spatial decisions 2- Limits, criteria, and spatial decision options 3- Weighting methods of spatial decision criteria and rules 4- Multicriteria spatial decision-making systems (MC-SDSS) 5- Concepts and methods of group spatial decision-making systems 6- Measuring agreement in group decision making 7- Group spatial decision-making based on web technology 8- Evaluation of the use of group decision-making systems 9- Studying user behavior and interaction with the advanced spatial decision-making system 10- Spatial decision-making systems based on advanced technologies			
<b>Reference</b> 1- Jean-Claude Thill, 2019, Spatial Multicriteria Decision Making and Analysis: A Geographic Information Sciences Approach (Rutledge Revivals), Rutledge. 2- Malczewski J. And Rinner C., 2015, multicriteria decision analysis in geographic information science, Springer. 3- Malczewski J., 1999, GIS and multicriteria decision analysis, John Wiley Press.			